

## CLAIMS

1. A method for softening lines and/or relaxing the skin and/or relaxing facial features, comprising topically applying to the skin a composition  
5 comprising at least one compound selected from the group consisting of adenosine and adenosine analogues, in a physiologically acceptable medium.

2. The method according to Claim 1, wherein said composition comprises an adenosine analogue  
10 selected from the group consisting of: agonists of adenosine receptors, compounds increasing intra- or extra-cellular adenosine levels, and mixtures thereof.

3. The method according to Claim 1, wherein said composition comprises at least one adenosine  
15 analogue selected from the group consisting of: 2'-deoxyadenosine; 2',3'-isopropylidene adenosine; toyocamycin; 1-methyladenosine, N-6-methyladenosine; adenosine N-oxide; 6-methylmercaptapurine riboside; 6-chloropurine riboside; 5'-adenosine monophosphate; 5'-  
20 adenosine diphosphate and 5'-adenosine triphosphate; phenylisopropyl adenosine, 1-methylisoguanosine, N<sup>6</sup>-cyclohexyladenosine, N<sup>6</sup>-cyclopentyladenosine, 2-chloro-N<sup>6</sup>-cyclopentyladenosine, 2-chloroadenosine, N<sup>6</sup>-phenyladenosine, 2-phenylaminoadenosine, MECA, N<sup>6</sup>-  
25 phenethyladenosine, 2-p-(2-carboxyethyl)phenethyl-amino-5'-N-ethylcarboxamidoadenosine, N-ethylcarboxamidoadenosine, 5'-(N-cyclopropyl)-

carboxamidoadenosine, DPMA and metrifudil; erythro-9-(2-hydroxy-3-nonyl) adenine and iodotubercidin.

4. The method according to Claim 1, wherein the composition comprises 0.01% to 1% by weight of  
5 adenosine and/or adenosine analogue with respect to the total composition weight.

5. The method according to Claim 2, wherein the composition comprises 0.01% to 1% by weight of adenosine and/or adenosine analogue with respect to the  
10 total composition weight.

6. The method according to Claim 3, wherein the composition comprises 0.01% to 1% by weight of adenosine and/or adenosine analogue with respect to the total composition weight.

7. The method of Claim 1, wherein the  
15 composition is applied to one or more zones of the face or forehead marked with expression lines and/or to persons having expression lines.

8. The method of Claim 1, wherein said  
20 composition comprises adenosine.

9. The method of Claim 4, wherein said composition comprises adenosine.

10. The method according to Claim 1, comprising topically applying to the skin an amount of  
25 said composition effective to provide a relaxing effect on contractile fibroblasts.

11. The method according to Claim 10, wherein said composition comprises an adenosine

analogue selected from the group consisting of:  
agonists of adenosine receptors, compounds increasing  
intra- or extra-cellular adenosine levels, and mixtures  
thereof.

5           12.       The method according to Claim 10,  
wherein said composition comprises at least one  
adenosine analogue selected from the group consisting  
of: 2'-deoxyadenosine; 2',3'-isopropylidene adenosine;  
toyocamycin; 1-methyladenosine, N<sup>6</sup>-methyladenosine;  
10   adenosine N-oxide; 6-methylmercaptapurine riboside; 6-  
chloropurine riboside; 5'-adenosine monophosphate; 5'-  
adenosine diphosphate and 5'-adenosine triphosphate;  
phenylisopropyl adenosine, 1-methylisoguanosine, N<sup>6</sup>-  
cyclohexyladenosine, N<sup>6</sup>-cyclopentyladenosine, 2-chloro-  
15   N<sup>6</sup>-cyclopentyladenosine, 2-chloroadenosine, N<sup>6</sup>-  
phenyladenosine, 2-phenylaminoadenosine, MECA, N<sup>6</sup>-  
phenethyladenosine, 2-p-(2-carboxyethyl)phenethyl-  
amino-5'-N-ethylcarboxamidoadenosine, N-  
ethylcarboxamidoadenosine, 5'-(N-cyclopropyl)-  
20   carboxamidoadenosine, DPMA and metrifudil; erythro-9-  
(2-hydroxy-3-nonyl) adenine and iodotubercidin.

          13.       The method according to Claim 10,  
wherein the composition comprises 0.01% to 1% by weight  
of adenosine and/or adenosine analogue with respect to  
25   the total composition weight.

          14.       The method according to Claim 11,  
wherein the composition comprises 0.01% to 1% by weight

of adenosine and/or adenosine analogue with respect to the total composition weight.

15        15.        The method according to Claim 12, wherein the composition comprises 0.01% to 1% by weight of adenosine and/or adenosine analogue with respect to the total composition weight.

10        16.        The method of Claim 10, wherein the composition is applied to one or more zones of the face or forehead marked with expression lines and/or to persons having expression lines.

17.        The method of Claim 10, wherein said composition comprises adenosine.

18.        The method of Claim 13, wherein said composition comprises adenosine.

15        19.        The method of Claim 1, wherein said composition comprises adenosine and at least one adenosine analogue.

20        20.        The method of Claim 10, wherein said composition comprises adenosine and at least one adenosine analogue.

21.        The method of claim 1, comprising topically applying to the skin an effective amount of said composition to decrease wrinkles and/or reduce laugh lines and/or reduce frown lines.

25        22.        The method of claim 8, comprising topically applying to the skin an effective amount of said composition to decrease wrinkles and/or reduce laugh lines and/or reduce frown lines.